



AYDIN ADNAN MENDERES UNIVERSITY COURSE INFORMATION FORM

Course Title		Toxicological Tests and Evaluations							
Course Code		VFT640		Couse Level		Third Cycle (Doctorate Degree)			
ECTS Credit	4	Workload	96 (<i>Hours</i>)	Theory	1	Practice	2	Laboratory	0
Objectives of the Course		Toxicity tests, with the nature and degree of harmful effects caused by chemical substances that can cause such effects in the determination of amounts to provide information about the finding.							
Course Content		Toxicity tests, with the nature and degree of harmful effects caused by chemical substances that can cause such effects in the determination of the amounts the finding in this direction, the main chemical compounds in the acute, subacute, chronic and special toxicity tests and toxicity tests in addition to negative risks to the environment							
Work Placement		N/A							
Planned Learning Activities and Teaching Methods				Explanation (Presentation), Experiment, Demonstration, Discussion					
Name of Lecturer(s)									

Assessment Methods and Criteria

Method	Quantity	Percentage (%)
Midterm Examination	1	30
Final Examination	1	70

Recommended or Required Reading

1	Hayes, WA (2007) Principles and Methods of Toxicology, 5th Edition, Taylor and Francis, London.
2	Hodgson, E (2010) A textbook of modern toxicology, 4 th Edition, John Wiley and Sons, Inc., Hoboken, Canada.
3	Handbook of Experimental Pharmacology – 199; Comparative and Veterinary Pharmacology, Fiona CUNNINGHAM, Jonathan ELLIOTT, Peter LEES (Editors); Springer Press, 2009.

Week	Weekly Detailed Course Contents	
1	Theoretical	Properties and classification of toxicity tests
	Practice	Toxicity tests - 1
2	Theoretical	Acute toxicity tests
	Practice	Toxicity tests - 2, Acute toxicity tests
3	Theoretical	Repeated dose testing
	Practice	Repeated dose testing
4	Theoretical	Subacute toxicity testing
	Practice	Subacute toxicity testing
5	Theoretical	Subchronic toxicity tests
	Practice	Subchronic toxicity tests
6	Theoretical	Chronic toxicity tests
	Practice	Chronic toxicity tests
7	Theoretical	Chronic toxicity tests
	Practice	Chronic toxicity tests
8	Theoretical & Practice	(Midterm exam) Chronic toxicity tests
9	Theoretical	Chronic toxicity tests
	Practice	Chronic toxicity tests
10	Theoretical	Adaptation of the results obtained from animals to people
	Practice	Adaptation of the results obtained from animals to people
11	Theoretical	Risk factor assessment
	Practice	Risk factor assessment
12	Theoretical	The level and amount of inert
	Practice	The level and amount of inert
13	Theoretical	Acceptable daily intake
	Practice	Acceptable daily intake
14	Theoretical	Trust and tolerance factor



14	Practice	Trust and tolerance factor
15	Final Exam	Final exam

Workload Calculation

Activity	Quantity	Preparation	Duration	Total Workload
Lecture - Theory	14	1	1	28
Lecture - Practice	14	1	2	42
Midterm Examination	1	6	1	7
Final Examination	1	16	3	19
Total Workload (Hours)				96
[Total Workload (Hours) / 25*] = ECTS				4

*25 hour workload is accepted as 1 ECTS

Learning Outcomes

1	Toxicity tests will have information on properties and classification.
2	Learns of the results obtained from animals to people the issue of adaptation.
3	To learn knowledge and propose suggestions on the area.
4	To find out and use resources about the profession in the area.
5	To give lectures and/or presentations and discuss with professionals in the area.

Programme Outcomes (Pharmacology and Toxicology (Veterinary Medicine) Doctorate)

1	Gains expert knowledge on field of pharmacology and toxicology in veterinary medicine and, gains expert knowledge on interdisciplinary interaction in pharmacology and toxicology
2	To be equipped with the knowledge to develop original ideas about necessary issues in the field by using of both graduate and expertise levels knowledge, to be able to develop original definitions, products and diagnostic procedures, etc. via deepening and questioning these knowledge.
3	Develops and uses strategies in his/her field of expertise in PhD Program of Pharmacology and Toxicology
4	Reviews, evaluates and interprets any data (field observations, available scientific information etc.) towards a specific purpose.
5	Gains expert knowledge on the function and basic pharmacological features of pharmacology and sub-branches of science, relationship between the drug and poison, pharmacokinetic, effects of the drugs, the dose-intensity and dose-effect relationship.
6	Gains expert knowledge on the function and basic toxicological features of poison, classifications and types of poisoning, toxicokinetic, general principles of treatment of poisoning.
7	Can offer training to technical staff who will work in pharmacology and toxicology laboratory
8	Reach to competence to prepare courses at the undergraduate level
9	Determines and uses laboratory equipment and consumables in a pharmacology and toxicology laboratory.
10	To be able to plan an interdisciplinary project and build team for the known or new defined problems and to manage and complete such a project when necessary.
11	To share his/her knowledge in the field with others by attending at field-related or other congresses, panels, symposiums, workshops, seminars, article discussions and problem solving sessions, etc., and to contribute to the solution in the team by establishing relations with the experts in different fields.
12	To contribute the scientific knowledge in the field via publications in national and international peer-reviewed scientific journals.
13	Takes roles in vocational organizations and institution.
14	Forms ideas to solve complex problems using theoretical and practical information gained throughout the pharmacology and toxicology education.
15	To adopt lifelong learning as a principle and acknowledge that the information gained through research is the most valuable gain.
16	Knows and protects rights of ideas and industrial property (patent right)

Contribution of Learning Outcomes to Programme Outcomes 1:Very Low, 2:Low, 3:Medium, 4:High, 5:Very High

	L1	L2	L3	L4	L5
P1	3	4			
P2				4	
P3	4	4	4	4	
P4			4		
P5	5	5			
P8	4	4			4
P11			4		4



P12				4	
P13		4			
P14	4	4	4		4

